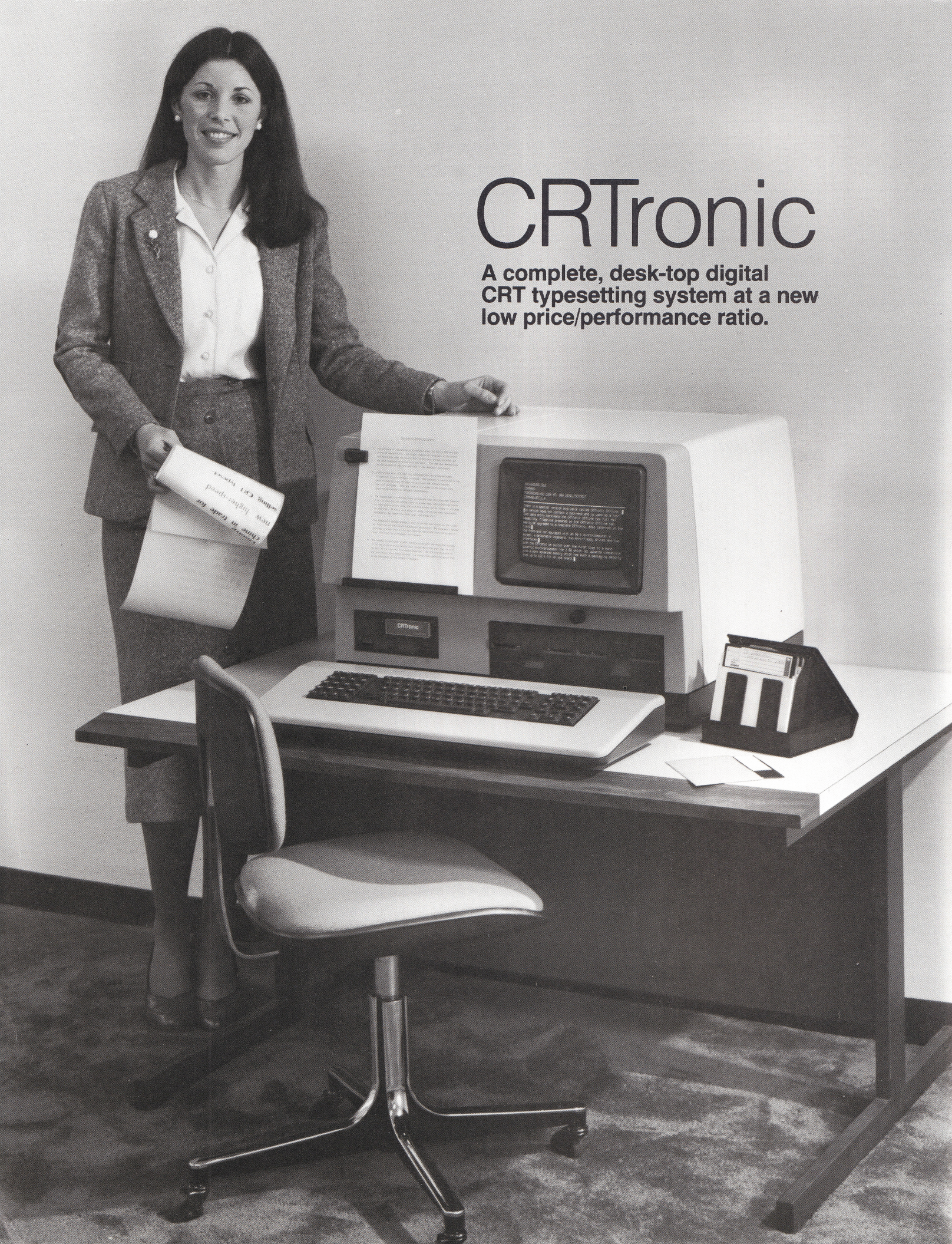
CRTronic™

The BIGGEST

Little Digital Typesetter in the World


CRTronic
A complete, desk-top digital
CRT typesetting system at a new
low price/performance ratio.

CRTronic:

Offers you a complete direct entry digital typesetting system that is *no more costly* than a conventional direct entry system.

CRTronic:

Is the only desk-top direct entry typesetting system using CRT technology. This marks the first time that an intelligent front end system has been integrated with a digital CRT photo unit.

CRTronic:

Uses digitized fonts so you buy a typeface master only once and produce any size, plus expanded, condensed, and oblique effects you desire. CRTronic produces consistent, high quality type images on paper or film. And digitization means fewer moving parts—and greater reliability.

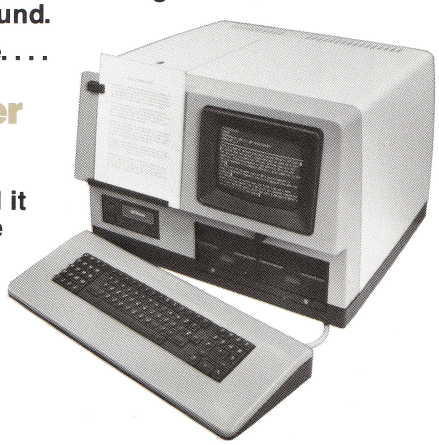
CRTronic is a full performance typesetter with complete editing capabilities with a powerful file management system the equal of large text processing systems. However, CRTronic is easy to operate. Even the comfort of the operator was taken into consideration by incorporating a moveable keyboard and tiltable display. CRTronic will set the standard for the industry.

CRTronic offers *you* the following *standard* benefits:

- **Table-top CRT Technology.**
- **Moveable keyboard and tiltable display for operator comfort.**
- **Output speed up to 40 lines per minute.**
- **Point sizes from 4 to 72 point in 1/10 pt. increments.**
- **8 Digitized Fonts on-line.**
- **23 Font widths on-line.**
- **12° Electronic Slant up to 48 point.**
- **Electronic Condense and Expand.**
- **Two Dual Density Mini-Floppy Disk Drives.**
- **2,000 Character Exception Word Dictionary.**
- **Automatic File Management.**
- **Batch processing in the background.**
- **Automatic H & J in the Foreground and/or Background.**
- **And many more. . . .**

Mergenthaler Linotype

That's why we call it The Biggest, Little Digital Typesetter in the World.



CRTronic Specifications

DISPLAY

Screen Size
9 inch diagonal, tiltable

Screen Capacity
18 lines up to 64 characters each. Includes 5 control lines and 13 text lines.

Display Format
Single column, 13 lines of 64 characters

Character Set
256 characters and symbols, not user programmable.

Character Size
Approximately 11.5 pt. on 9 x 13 matrix

File Index
314 files/diskette

Display Memory
123 lines (7872 characters)

Typesetting Parameters
Displayed in text in reverse video

Interactive Mode
Displays: analog line-length-remainder in the form of a light bar; digitized indication of remaining line length, of the actual space, the actual field number (within the index) and the actual height of column.

Additionally recallable: the actual x-position, type size and font number, film advance, line length, indentation as well as number of defined tabular columns.

CONTROL AND EDITING FUNCTIONS

Scrolling
Forward and backward through visual display memory, also paging throughout diskette

Local Search (FIND)
Automatic search within screen memory for a string of up to 20 characters that match the string in the control line

Background Search
Same as Find except search can be done by file, groups of files or globally through a complete diskette

Search and Replace
40 character search/replace string e.g., search 10 characters, replace with 15; search 20 characters, replace with 20.

Modes
Insert or overwrite

Move Block
Any defined text moved by single key-stroke to new location defined by cursor

Delete
Single keystroke deletes character, word, sentence, block or from cursor position

Cursor
Left, right, up, down, home, next line, next word, previous word, start of last paragraph, start of next paragraph, foreground and background

Store and Recall
14 programmable keys in 3 levels for multicodes up to 64 characters, in total 1,024 characters.

Mini-Floppy
314 direct accessible jobs of variable length, combined into files; two diskette drives standard (dual density), 160,000 characters for text, composition and system program, including H & J, dictionary storage, width tables and digitized fonts.

Access Methods
Direct via job number, index sequential via job names, any required sequences via job numbers or job names.

File Correction
Search, cancel, insert, amend, with automatic file management by the system

Floppy-Diskette Directory
To be called up on visual display with job number, state of text and job name (up to 19 characters per name) corresponding to the sequences stored on floppy diskette

User Defined Formats
Up to 1,024 characters, individually definable.

JUSTIFICATION/HYPHENATION

Justification
Automatic—background and foreground

Logic Hyphenation
Loads automatically with rest of program. Allows discretionary hyphenation

Exception Word Dictionary
2,000 character dictionary of correctly hyphenated words. Dictionaries can be stored on diskette and recalled by file name.

INPUT/OUTPUT

Input
Movable keyboard or mini-floppy diskette. Each diskette stores 160,000 characters.

Output
Line length 45 pica

Typesetting Speed
Up to 40 LPM

Point Sizes
4 to 72 in 1/10-point increments

Font Master Capacity
A maximum of 8 different fonts are stored on one dual density mini-floppy diskette with 121 characters per font.

Number of Required Digitizations
One master digitization produces all sizes.

Expanding/Condensing
Expanded and condensed versions of all fonts are produced by independently changing set widths of the point size. 50% to 200% of original character in 1% increments.

Slanting
Digitized fonts can be slanted 12°.

Resolution
1,270 scan lines per inch over total width area

Right/Wrong Reading
Right or reverse reading

Baseline Jump
By input command in 1/35 pt. increments from baseline to 48 pt. minus height of character.

Paging
Multi-column setting using vertical justification with running heads, footings and automatic folio generation.

Tabulation
Visible tabs on screen and typesetting tabs Maximum of 32 columns.

Horizontal Rules
In all widths in 1/35 pt. increments from 1/35 point to 48 point.

Simultaneous Input/Output
Foreground/background operation

Reverse Leading and Vertical Rules
Available as option in third quarter, 1980. Details to follow.

MISCELLANEOUS

Size/Weight
Width: 25 inches
Depth: 30½ inches (with keyboard)
Height: 17½ inches
Weight: 143 lbs.

Electrical
115V, 10A, 60Hz, single phase

Environmental
Temperature: 65° to 75°F (18° to 24°C)
Humidity factor of 50% ± 10%, non-condensing and static-free.
BTUs/hour: 1883

These specifications are subject to change without notice.

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